

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P520659

Luminaire Tested: **8WSLA-125-L840-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-125-L840-UPL8-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

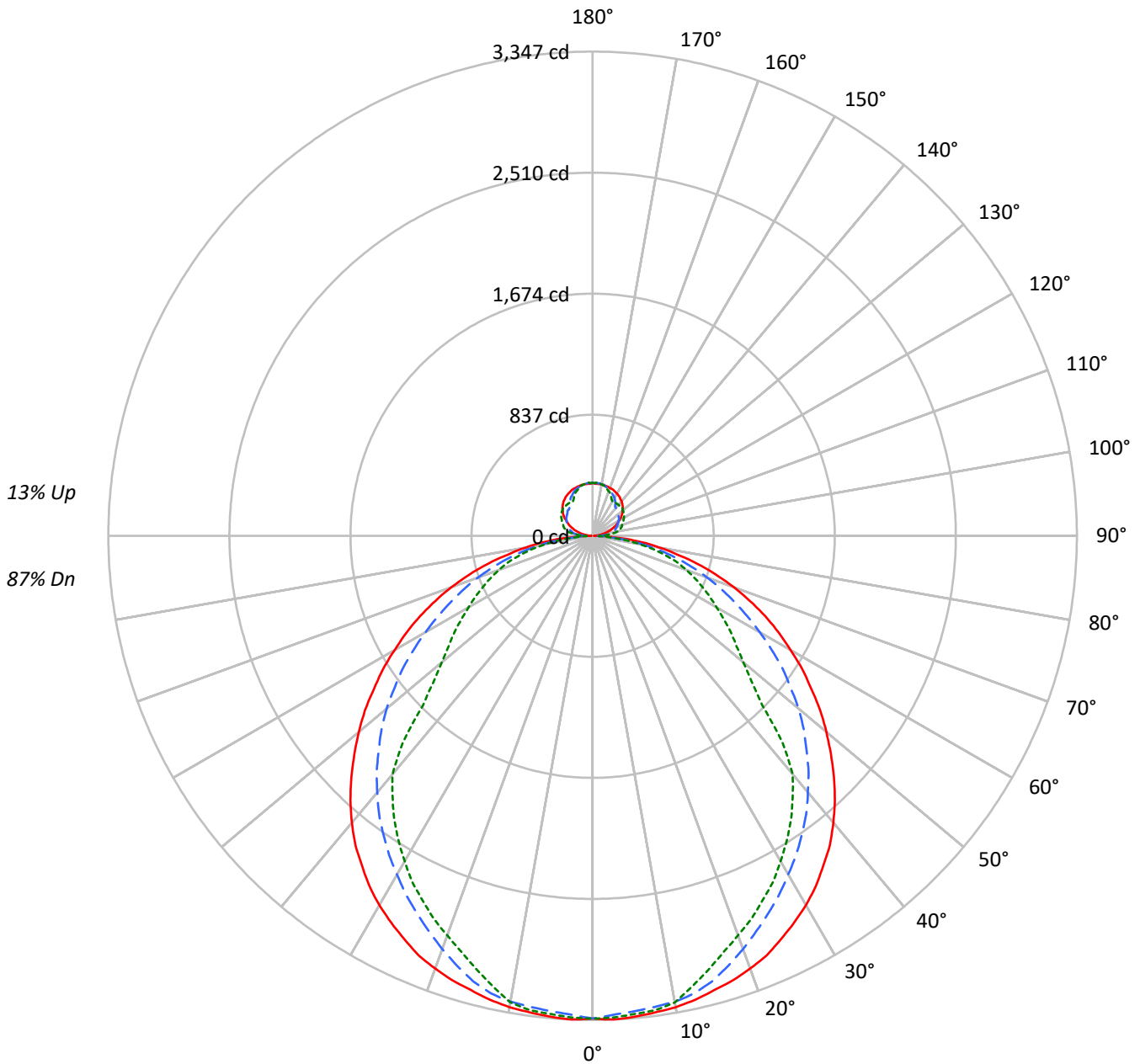
Lumens per Lamp: N/A
Luminaire Lumens: 10387.0 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 78.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87								
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73								
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61								
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51								
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44								
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38								
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33								
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30								
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26								
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24								
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8981	8981	8981
5°	9016	8912	8964
10°	9041	8936	8949
15°	9057	8883	8643
20°	9118	8705	8416
25°	9140	8541	8256
30°	9162	8401	8073
35°	9134	8282	7856
40°	9093	8131	7557
45°	8973	7950	6305
50°	8826	7780	5689
55°	8652	7525	5475
60°	8503	7185	5324
65°	8378	6880	5321
70°	8161	6612	5403
75°	7790	6291	5442
80°	7293	5656	5061
85°	6672	4005	3412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.0	3.0
10°-20°	898.3	8.6
20°-30°	1342.2	12.9
30°-40°	1602.2	15.4
40°-50°	1602.4	15.4
50°-60°	1386.8	13.4
60°-70°	1064.4	10.2
70°-80°	652.2	6.3
80°-90°	183.6	1.8
90°-100°	103.8	1.0
100°-110°	164.7	1.6
110°-120°	192.6	1.9
120°-130°	207.9	2.0
130°-140°	204.8	2.0
140°-150°	181.2	1.7
150°-160°	149.2	1.4
160°-170°	99.8	1.0
170°-180°	34.8	0.3
0°-30°	2556.5	24.6
0°-40°	4158.7	40.0
0°-60°	7147.9	68.8
0°-90°	9048.2	87.1
90°-120°	461.1	4.4
90°-150°	1055.1	10.2
90°-180°	1339.0	12.9
0°-180°	10387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3338	3338	3338	3338	3338	
5°	3338	3328	3299	3323	3318	318
15°	3251	3246	3189	3131	3102	920
25°	3078	3040	2877	2800	2780	1420
35°	2780	2708	2521	2430	2392	1741
45°	2358	2291	2089	1902	1657	1818
55°	1844	1801	1604	1282	1167	1653
65°	1316	1268	1080	869	836	1300
75°	749	711	605	523	523	790
85°	216	178	130	110	110	226
90°	10	34	53	67	72	15
95°	38	82	110	115	115	38
105°	110	115	163	192	202	116
115°	182	154	192	221	235	178
125°	245	197	221	254	264	218
135°	293	264	245	269	283	226
145°	327	312	274	269	278	204
155°	346	341	322	307	302	160
165°	355	360	351	351	351	101
175°	360	365	365	370	370	34
180°	365	365	365	365	365	



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CATALOG NUMBER: 8WSLA-125-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3337.6	3337.6	3337.6	3337.6	3337.6
2.5°	3347.2	3337.6	3313.6	3337.6	3332.8
5°	3337.6	3328.0	3299.2	3323.2	3318.4
7.5°	3323.2	3313.6	3284.8	3313.6	3308.8
10°	3308.8	3299.2	3270.4	3289.6	3275.2
12.5°	3284.8	3275.2	3241.5	3217.5	3188.7
15°	3251.1	3246.3	3188.7	3131.1	3102.3
17.5°	3222.3	3207.9	3116.7	3049.5	3015.8
20°	3183.9	3159.9	3039.8	2963.0	2939.0
22.5°	3140.7	3102.3	2958.2	2886.2	2867.0
25°	3078.3	3039.8	2876.6	2799.7	2780.5
27.5°	3015.8	2967.8	2794.9	2718.1	2698.9
30°	2948.6	2881.4	2703.7	2631.7	2598.0
32.5°	2871.8	2804.5	2617.2	2535.6	2497.2
35°	2780.5	2708.5	2521.2	2430.0	2391.5
37.5°	2694.1	2617.2	2425.2	2324.3	2271.5
40°	2588.4	2511.6	2314.7	2204.2	2151.4
42.5°	2478.0	2405.9	2209.1	2074.6	1944.9
45°	2357.9	2290.7	2089.0	1901.7	1656.8
47.5°	2233.1	2175.4	1978.5	1724.0	1488.7
50°	2108.2	2050.6	1858.5	1555.9	1359.0
52.5°	1983.3	1935.3	1724.0	1416.7	1253.4
55°	1844.1	1800.9	1604.0	1282.2	1167.0
57.5°	1719.2	1676.0	1464.7	1171.8	1075.7
60°	1580.0	1541.5	1335.0	1061.3	989.3
62.5°	1450.3	1407.1	1205.4	965.3	912.4
65°	1315.8	1267.8	1080.5	869.2	835.6
67.5°	1176.6	1128.5	960.5	782.8	763.6
70°	1037.3	998.9	840.4	696.3	686.7
72.5°	893.2	850.0	720.3	614.7	614.7
75°	749.2	710.7	605.1	523.4	523.4
77.5°	600.3	581.1	485.0	427.4	432.2
80°	470.6	446.6	365.0	326.6	326.6
82.5°	345.8	317.0	244.9	216.1	225.7
85°	216.1	177.7	129.7	110.5	110.5
87.5°	67.2	52.8	38.4	43.2	43.2
90°	9.6	33.6	52.8	67.2	72.0
92.5°	24.0	62.4	76.8	91.2	96.0
95°	38.4	81.6	110.5	115.3	115.3
97.5°	52.8	91.2	134.5	153.7	153.7
100°	72.0	96.0	144.1	172.9	177.7
102.5°	91.2	105.7	153.7	182.5	192.1
105°	110.5	115.3	163.3	192.1	201.7



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CATALOG NUMBER: 8WSLA-125-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.3	144.1	182.5	216.1	225.7
115°	182.5	153.7	192.1	220.9	235.3
117.5°	196.9	168.1	201.7	230.5	240.1
120°	211.3	177.7	206.5	240.1	249.7
122.5°	230.5	187.3	216.1	244.9	259.3
125°	244.9	196.9	220.9	254.5	264.1
127.5°	259.3	216.1	225.7	259.3	268.9
130°	268.9	235.3	230.5	264.1	273.7
132.5°	283.3	249.7	235.3	268.9	278.5
135°	292.9	264.1	244.9	268.9	283.3
137.5°	302.5	278.5	244.9	268.9	278.5
140°	312.1	292.9	249.7	268.9	278.5
142.5°	317.0	302.5	254.5	268.9	278.5
145°	326.6	312.1	273.7	268.9	278.5
147.5°	331.4	321.8	288.1	268.9	278.5
150°	336.2	331.4	302.5	273.7	273.7
152.5°	341.0	336.2	312.1	292.9	283.3
155°	345.8	341.0	321.8	307.3	302.5
157.5°	350.6	350.6	331.4	321.8	317.0
160°	350.6	355.4	341.0	331.4	326.6
162.5°	355.4	360.2	345.8	341.0	336.2
165°	355.4	360.2	350.6	350.6	350.6
167.5°	360.2	365.0	360.2	355.4	355.4
170°	360.2	365.0	360.2	360.2	360.2
172.5°	360.2	365.0	365.0	365.0	365.0
175°	360.2	365.0	365.0	369.8	369.8
177.5°	360.2	365.0	365.0	365.0	365.0
180°	365.0	365.0	365.0	365.0	365.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	129.7	124.9	168.1	201.7	211.3
110°	144.1	134.5	177.7	206.5	216.1



(END OF REPORT)